

Neem Pro Riddance™



Protection against biting insects for farm animals

A health maintenance insect control product that provides protection for farm animals including cattle, sheep, goats, horses, and domestic animals against biting and sucking insect pests.

A plant derived oil based emulsion for use against ectoparasite pests such as:

- Biting insects such as midges (*Culicoides spp.*), the vector of the Orthobunya virus (*Schmallenberg*)
- Sucking insects such as lice, ticks, fleas (*Ixodes* and *Haemophysalis spp.*)
- Egg laying flies such as blow, head (*Lucilia, Calliphora spp.*, and *Hydrotea irritans*)

For midges (*Culicoides*) a single application of **Neem Pro Riddance™** is normally sufficient to provide control for up to 10 weeks. For sheep the first application should be carried out post shearing / tugging. In times of high strike risk, the application may be repeated at 5 week intervals.

Neem Pro Riddance™ contains 1% azadirachtin (10g/litre) derived from a patented standardized natural extract from the neem tree (*Azadirachta*

indica) formulated specifically for this market in plant oil and surfactants derived from renewable natural products. The neem tree is part of the mahogany family.

Neem Pro Riddance™ is available as a concentrate for dilution and spraying or as a hand spray for spot application, particularly during ear tagging.

PROTECT THEM FROM BITES BEFORE IT'S TOO LATE

Suitable for organic farming



HOW NEEM PRO RIDDANCE™ WORKS

Neem Pro Riddance™ controls parasites mainly as an antifeedant, with some repellency effect. It is particularly effective against flying semi-permanent parasites such as midges, blow, and head flies. Within hours it prevents feeding, and repels insects from further feeding and egg-laying. Within a few days, the parasite infestation will be dramatically reduced mainly due to the antifeedant effect.

As a natural product **Neem Pro Riddance™** is not a neuro-active contact biocide, and so there is no immediate 'knock-down' effect.

The active ingredient does not penetrate the animal skin, but dissolves into the skin oils, giving long-term protection – up to 16 weeks, depending on the amount applied.

Research conducted by at the Scottish Agricultural College in Edinburgh has shown that the extract is highly repellent to midges of *Culicoides* species (see graph). This is particularly important in light of the growing threat to the UK and ROI of midge-borne viruses such as Schmallenberg and Blue Tongue.

The graph shows the results of a trial where midges (*Culicoides impunctatus*) were presented to a membrane containing sheep blood with various concentrations of the active. It can be seen that as the concentration increased biting completely ceased.

In the trial the active was also shown to have an effect as a distance repellent. Midges were flown up the tube and presented with a choice of direction with one air flow containing the active – 75% of the midges chose the clean air.

BEST TIMES FOR APPLICATION

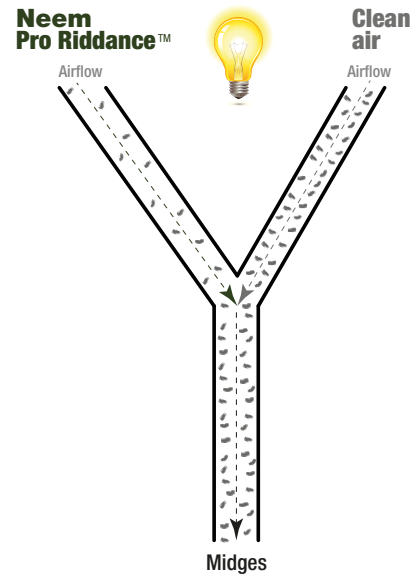
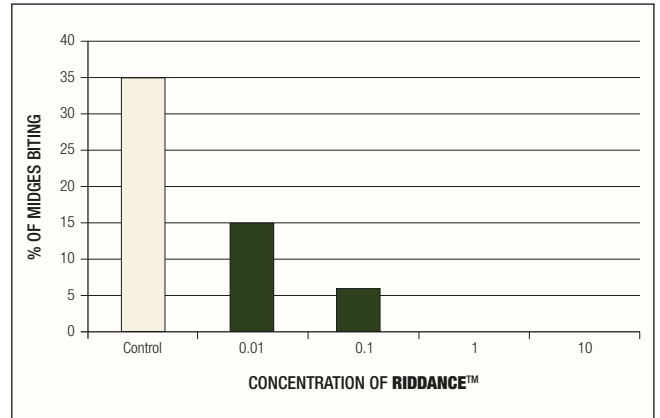
For all stock ideally apply **Neem Pro Riddance™** prior to peak insect activity, and apply to risk animals prior to tugging/mating/service. But **Riddance™** can be used to control ectoparasites once they are established.

The duration of efficacy can be up to 16 weeks, dependent on the concentration applied.

Regular application will help to prevent parasites gaining a foot-hold, particularly on young animals.

As with all products, the degree of control afforded by **Neem Pro Riddance™** is influenced by prevailing weather conditions, method of application, the species of insects involved, and other uncontrollable factors.

To obtain the best effects, the animals must be thoroughly covered. Care should be taken to apply to legs and ears (points of attack for midges).



For best results apply during dry weather. If there is significant rainfall within 24 hours following application a re-application may be required.

For sheep the best time for application is 2 - 3 weeks after shearing, when the wool has an average length of 25 - 50mm and in the breeding season. Apply **Neem Pro Riddance™** by spray to each sheep in the following manner – under the left foreleg, the right foreleg, the left hind leg, and the right hind leg, from the 'knees' to the hooves (particularly the coronary band - the interface between the leg and the hoof) and over the head and ears, applying to legs, head, and back.



USING NEEM PRO RIDDANCE™

Before using the product, read these instructions carefully, this information is summarized on the label. Use only in accordance with directions on the label.

Dilute the concentrate with clean water before use as shown in the table. Animals should be sprayed using a standard 20 litre capacity knapsack sprayer or hand spray.

Neem Pro Riddance™ can be used as a pour-on along the spine or watered on for individual animals but is likely to offer less protection.

The required quantity of **Neem Pro Riddance™** to be used each day should be diluted to the required concentration. It should not be stored after dilution as the efficacy will be reduced.

The small measuring compartment on the bottle is calibrated to 10 ml, 15 ml, 20 ml and 25 ml.

The table shows the quantities to provide 10 weeks of protection, at a dilution of 1:50. The concentration can be doubled to 1:25 for greater efficacy.



ANIMAL	TYPICAL WEIGHT*	QUANTITY FOR ONE ANIMAL		QUANTITY FOR A 20 LITRE BACKPACK SPRAY			NO. OF ANIMALS PER 1 LITRE RIDDANCE™
		QUANTITY OF RIDDANCE™	MAKE UP TO WITH WATER**	QUANTITY OF RIDDANCE™	MAKE UP TO WITH WATER	APPLY TO NUMBER OF ANIMALS ***	
Sheep – short fleece after shearing	< 50 kg	5ml	0.25 litres	0.4 litres	20 litres	80	200
	50-100 kg	10ml	0.5 litres			40	100
	> 100 kg	20ml	1 litre			20	50
Sheep – long fleece before tuppung	< 50 kg	10ml	0.5 litres			40	100
	50-100 kg	20ml	1 litre			20	50
	> 100 kg	30ml	1.5 litres			13	33
Cattle – short hair	500 kg	30ml	1.5 litres			13	33
	1 000 kg	40ml	2 litres			10	25
Cattle– long hair	500 kg	40ml	2 litres			10	25
	1 000 kg	60ml	3 litres			6-7	17
Ponies / Horses	200 kg	30ml	1.5 litres	13	33		
	500 kg	50ml	2.5 litres	8	20		
Goats	100 kg	10ml	0.5 litres	40	100		
Dogs (Labrador size)	30 kg	5ml	0.25 litres	N/A		200	

* Vary the quantity of **Neem Pro Riddance™** for other weights pro-rata

** Can be varied to ensure the animal is covered, but retaining the stated quantity of **Neem Pro Riddance™**

*** This is a guide only

USING THE NEEM PRO RIDDANCE™ HAND SPRAY

Before using the product, read these instructions carefully, this information is summarized on the label. Use only in accordance with directions on the label.

Apply **Neem Pro Riddance™** spray to each animal in the following manner – under the left foreleg, the right foreleg, the left hind leg and the right hind leg, from the 'knees' to the hooves (particularly the coronary band – the interface between the leg and the hoof), and over the head and ears, applying to legs, head, and back.

The hand spray is ideal for use during ear tagging.



STORAGE AND STABILITY

Store in original container, tightly closed, in a safe place. Keep out of direct sunlight.

Store between 10-20°C. Storage below 10°C can lead to precipitations in the product, which can be re-dissolved by warming up to approximately 20-30°C (maximum) without loss of activity. After warming, stir thoroughly.

If stored in a cool dry place away from light and frost, the product will remain active for 2 years after manufacture; the date is shown on the label.

Neem Pro Riddance™ should not be stored after dilution as the efficacy will be reduced.

WITHDRAWAL PERIOD

There is no withdrawal period for animals following application with **Neem Pro Riddance™**.

HONEY BEES

The active ingredient is not acutely toxic to honey and bumble bees, ladybirds, and most other non-parasitic insects.

PERSONAL SAFETY MEASURES

- Wear protective clothing, rubber gloves, and boots when applying the product.
- Avoid all unnecessary contact with the product. Always follow general protective measures: keep away from food, beverages, and animal foodstuffs. When using the product do not eat, drink, or smoke. Wash hands and exposed skin after work.
- Avoid contact with the eyes. If splashed into the eyes or on skin, wash with plenty of clean running water immediately. If irritation persists, seek medical advice taking the product safety data sheet or label.



- Keep out of reach of children.
- In rare cases, especially sensitive persons may suffer a reversible skin or eye irritation due to this product.

ENVIRONMENTAL CONTAMINATION

There are no specific restrictions on normal use with reference to bodies of water, but do not dispose of the product into ponds, ditches, or watercourses. Drips of the product from animals onto the soil will quickly degrade.

DISPOSAL OF EMPTY CONTAINERS

Empty containers should be rinsed and recycled.

For use on animals only

Non-flammable

ADVANTAGES OF NEEM PRO RIDDANCE™

- Highly specific control of ectoparasites, particularly biting and sucking insects. Multiple modes of action means target pests are unlikely to develop resistance
- Easy to use
- Natural, plant-derived active
- Organic
- GM-free
- No waiting period before milk or meat can be sold and consumed
- As a plant extract it is quickly broken down in the environment
- Bottled in the the UK



Manufactured by Trifolio-M GmbH
Neem Pro Riddance™ is a registered trade mark.



Bottled in the UK
British quality
Guaranteed

Packaged by



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